

Madhu Siddharth Suthagar

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SUMMARY

Data Science grad student with expertise in the ML workflow, from data preprocessing to model building, evaluation, and monitoring. Strong foundation in mathematics (including Linear Algebra, Calculus, Probability, and Statistics) and exceptional communication skills, thriving in team and individual settings.

EDUCATION

M.A.S Data Science Illinois Institute of Technology - GPA - 4.0	May 2026
B.Tech Information Technology Coimbatore Institute of Technology - GPA - 3.66	April 2024

PATENTS AND CERTIFICATIONS

Granted Indian patent for project SATURDAE (Application no – 202341038832 A)	September 2023
Google Project Management certificate	July 2023
IBM Data Science Professional certificate	April 2023
Google Data Analytics certificate	May 2022

SKILLS

Tools - Google Cloud Platform, PostgreSQL, Tableau, IBM Watson Studio, Excel
Packages - Pandas, Numpy, PyTorch, Tensorflow, Plotly, Dash, Seaborn, Matplotlib, Scikit learn, nltk, keras
Programming Languages - Python, R, C, C++, Java, SQL

PROJECTS

Galaxy Explorer (Illinois Institute of Technology) Developed a star-gazing app showing visible stars based on location, direction, and viewing angle. Created a project to visualize historical Earth events from distant stars' perspectives using light-travel time. Integrated astronomical calculations and geospatial data for accurate, interactive sky-time simulations.	May 2025 - July 2025
Alzheimer's Prediction (Illinois Institute of Technology) Initiated an ML pipeline leveraging transfer learning with ResNet to classify Alzheimer's stages from MRI and GANs to generate personalized images predicting future stages, utilizing deep convolutional neural networks and optimizing Binary Cross Entropy loss (0.38 for discriminator, 3.52 for generator).	January 2025 - April 2025
Traffic Analysis (Coimbatore Institute of Technology) Developed a 5-minute interval traffic predictor for San Francisco with a Random Forest Regressor on the Caltrans dataset (R^2 : 0.87). Integrated web scraping for real-time news updates and implemented a custom-weighted Dijkstra algorithm for optimal route calculation, visualized using Folium maps.	January 2024 - April 2024

INTERNSHIP EXPERIENCE

Database Intern Brilliersys, India Architected scalable PostgreSQL hospital databases for high-volume transactions, ensuring consistency. Enhanced functionality by 15% through functions and triggers, collaborating with the team.	July 2022 - August 2022
AI Intern Smartknower, India Implemented CNN, ANN, and image processing techniques to develop a Fashion MNIST classifier as a mini project. Collaborated with a team to build an image classifier using ImageNet, VGG16, and transfer learning.	February 2021 - March 2021